

APTALON™ 8080HS

Bio-Based High Solids Waterborne Polyurethane Dispersion

PERFORMANCE COATINGS

Product Description

Aptalon™ 8080HS is a high solids, waterborne, one component, self-crosslinking polyamide polyol polyurethane dispersion with a high bio-based¹ content designed for clear wood finishes. The state of the art, self-crosslinking mechanism cures as the wet film dries enabling it to develop hardness rapidly for excellent chemical resistance, mar, and scuff resistance. Aptalon™ 8080HS's ability to perform without adding cross-linkers simplifies and lowers the risks of application associated with 2K systems, while also reducing waste. If desired, external crosslinkers can be added to Aptalon™ 8080HS to further improve properties, such as hardness and chemical resistance. Additionally, the high solids content of Aptalon™ 8080HS allows thicker films to be applied per application reducing the number of applications needed to achieve optimal performance. This translates into the elimination of application labor steps, reduced job cost, and faster return to service.

Features/Benefits

- Enables high film thickness applications reducing number of system layers
- Excellent abrasion resistance
- Forms hard and tough films
- 35% bio-based carbon content
- Formulates to <275/102 grams/liter US/EU VOC²
- No intentionally added NMP, NEP, and APEO
- Enables formulations to meet current US and EU VOC regulations

Physical Characteristics³

Appearance (wet)	Water White Dispersion
Total Solids by Weight, %	50.0 ± 1.0
Total Solids by Volume, %	50.0 ± 1.0
Density, lbs. /gal (g/ml)	8.76 (1.05)
Brookfield Viscosity, cps	< 500
pH	7.0 – 8.0
Volatile Organic Compounds, wt. %	0.95 TEA
Freeze-Thaw Stability	Protect from freezing

¹ 35% Biobased Carbon Content (as a fraction of total organic carbon). Verified externally (ASTM D6866-18 Method B)

² Using USA EPA method 24 / European Union ISO 11890-2

³ Property values represent typical results only and are not to be considered specifications

Typical Applications

- Interior wood finishes.
- Original and refinished wood floors.
- Concrete and cementitious sealers.
- Clear and pigmented topcoats.

Shelf Life/Storage

For shelf life information please refer to the packaging label and the Certificate of Analysis. It provides the date of manufacturing (DOM) and a recommended re-test date (RRD).

The RRD for **Aptalon™ 8080HS** is **360** days after DOM.

Store in original unopened containers. The product should be stored in places safe from sunlight, excessive cold and temperature changes. A storage temperature of 35°C should not be exceeded.

The product should be stirred until uniform before use.

Regulatory Status

Please see the product's current safety data sheet, SDS, for regulatory information. It can be requested at www.lubrizolcoatings.com.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Trademarks owned by The Lubrizol Corporation or its affiliates. © The Lubrizol Corporation 2020, All Rights Reserved.

Revised 10th February, 2021

